



SEQUENCE LISTING

<110> Kingsman, Susan M.  
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Carroll, Miles W.

<120> VECTOR

<130> DYOU23.001APC

<140> 09/445375

<141> 2000-03-21

<150> PCT/GB98/01627

<151> 1998-06-04

<150> GB9711579.4

<151> 1997-06-04

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<170> FastSEQ for Windows Version 4.0

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<211> 910

<212> DNA

<213> Artificial Sequence

<220>

<223> Coding sequence of a 5T4scFv designated 5T4scFv.1.

<221> misc\_feature

<222> (1)...(910)

<223> n = A,T,C or G

<400> 1

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gyytgcaactg ggtgaagcag agccatggaa agagccttga gtggattgga cgtmhwyksh 180
gkswgratta atcctaacaa tgggtgttact ctctacaacc agaaattcaa ggacaannng 240
vtynkkdkgg ccatattaac tgtagacaag tcattccacca cagcctacat ggagctccat 300
vdksssttaym gcagcctgac atctgaggac tctgcggtct attactgtgc aagatctact 360
rstdsavvy carstatgat tacgaactat gttatggact actgggggtca agtaacctca 420
gtcacmtnyv mdywgvtsvt cgtctcctca ggtggtggtg ggagcgggtg tggcggcact 480
ggcggcgggcg vssggggsgg ggtggggatc tagtattgtg atgaccaga ctcccacatt 540
cctgcttggt tcagcagssv mtttvsagga gacaggggta ccataacctg caaggccagt 600
cagagtgtga gtaatgagdr vttckassvs ndtgtagdt ggtaccaaca gaagccaggg 660
cagtctccta cactgctcat atvawykgst cctatacatc cagtcgctac gctggagtec 720
ctgatecgctt cattggcagt sytssryagv drgsggatat gggacggatt tcactttcac 780
catcagcaact ttgcaggctg aagagygttd tstadctgg cagtttattt ctgtcagcaa 840
gattataatt ctctccgac gttcgavyed ynstgtggag gcaccaagct ggaaatcaaa 900
cggggggtkkrr                                     910
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<210> 2  
 <211> 2239  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Coding sequence of a 5T4scFv designated 5T4scFv1.

<221> misc\_feature  
 <222> (1)...(2239)  
 <223> n = A,T,C or G

<400> 2  
 aagcttccac catgggatgg agctgtatca tctcttctt ggtagcaaca astmgwscva 60  
 tgctacaggt gtccactccg aggtccagct tcagcagctt ggacctgacc tatgvhsvsg 120  
 dgggtgaagcc tggggcttca gtgaagatat cctgcaaggc ttctgggttac tvkgasvksk 180  
 kasgycattc actggctact acatgcactg ggtgaagcag agccatggaa agagcstggy 240  
 mhwvkshgks cttgagtggg ttggacgtat taatcctaac aatgggtgta ctctctacaa 300  
 wgrnnngvty nccagaaatt caaggacaag gccatattaa ctgtagacaa gtcacccacc 360  
 akkdkatvdk sstcagccta catggagctc cgcagcctga catctgagga ctctgcggtc 420  
 tattaymrst sdsavytact gtgcaagatc tactatgatt acgaactatg ttatggacta 480  
 ctggggycar stmntnyvmdy wgtcaagtaa cctcagtcac cgtctcctca ggtgggtggtg 540  
 ggagcgggtgg tgvtsvtvss gggsgggcg gcactggcgg cggcggatct agtattgtga 600  
 tgaccacagac tcccacaggt ggggssvmtt tttctgctt gtttcagcag gagacagggg 660  
 taccataacc tgcaaggcca gvsagdrvtt ckastcagag tgtgagtaat gatgtagctt 720  
 ggtaccaaca gaagccaggg cagtsvsndv awykgtcct acactgctca taccctatac 780  
 atccagctgc tacgctggag tccctstsytt ssryagvgat cgtctcattg gcagtgagga 840  
 tgggacggat ttcactttca ccatcagdrp sgygtddtsc actttgcagg ctgaagacct 900  
 ggcagtttat ttctgtcagc aagattatat adavyediyat tctcctccga cgttcgggtg 960  
 aggacaccaag ctggaaatca aacggggcns tgggtkkrat ccaccaaggg cccatcggtc 1020  
 tccccctgg caccctctc caagagcacs tkgsvassks tctctggggg cacagcggcc 1080  
 ctgggctgcc tgggtcaagga ctacttcccc gsggtaagcv kdyaaccggg gacgggtgctg 1140  
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 tcttacagtc ctcaggactc tactccctca gcagcggtav ssgysssavg tgaccgtgcc 1260  
 ctccagcagc ttgggcaccc agacctacat ctgcaacgvt vsssgttyen tgaatcacia 1320  
 gccacagcaac accaaggtgg acaagaaagt tgagcccaaa vnhksntkvd kkvktcttgt 1380  
 gacaaaactc acacatgccc accgtgccc gcacctgaac tctscdkth tccagggggg 1440  
 accgtcagtc tctctcttcc ccccaaaacc caaggacacc ctcaggsvkk dttgatctcc 1500  
 cggacccctg aggtcacatg cgtggtggtg gacgtgagcc acmsrtvtcv vvdvshgaag 1560  
 accctgaggt caagttcaac tggtagctgg acggcgtgga ggtgcadvkn wyvdgvvhta 1620  
 atgccaagac aaagccgcgg gaggagcagt acaacagcac gtaccgtgna ktkrynstyr 1680  
 tggtcagcgt cctcaccgtc ctgcaccagg actggctgaa tggcaaggag vsvtvhdwn 1740  
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 aaktcatctc caaagccaaa gggcagcccc gagaaccaca ggtgtacacc ctgcskakgr 1860  
 vytccccatc ccgggatgag ctgaccaaga accaggtcag cctgacctgc ctgsrdtknv 1920  
 stcgtcaaag gcttctatcc cagcgacatc gccgtggagt gggagagcaa tggvkgysda 1980  
 vwsnggcagc cggagaacaa ctacaagacc acgcctcccg tgctggactc cgacgnnykt 2040  
 tvdsdgtctc ttcttctctc acagcaagct caccgtggac aagagcaggt ggcaggsysk 2100  
 tvdksrwcag gggaaagctc tctcatgctc cgtgatgcat gaggtctctc acaaccagnv 2160  
 scsvmhahnh ctacacgcag aagagcctct cctgtctctc gggtaaatga gtgcgacggc 2220  
 ytksssgkvr rcaagctts 2239

<210> 3  
 <211> 1809

<212> DNA  
<213> Artificial Sequence

<220>  
<223> Coding sequence of B7 1.5T4.1

<221> misc\_feature  
<222> (1)...(1809)  
<223> n = A,T,C or G

<400> 3  
atggggccaca cacggaggca gggaacatca ccattccaagt gtccataacct mghtrrgtss 60  
keycaatttc tttcagctct tgggtctggc tgggtctttct cactttctgtt cagnvagshe 120  
sgtgttatcc acgtgaccaa ggaagtgaag gaagtggcaa cgctgtcctg tgvhvtkvkv 180  
atcsggtcac aatgtttctg ttgaagagct ggcacaaact cgcattctact ggcaghnvsv 240  
atrywaaagg agaagaaaat ggtgctgact atgatgtctg gggacatgaa tatatkkkmv 300  
tmmsgdmngg cccgagtaca agaaccggac catctttgat atcactaata acctctccwy 360  
knrtatnnsa ttgtgatcct ggctctgccc ccattctgac agggcacata cgagtgtgtv 420  
arsdgtycvt gttctgaagt atgaaaaaga cgctttcaag cgggaacacc tggctgaagv 480  
kykdakrhat gacgttatca gtcaaagctg acttccctac acctagtata tctgactttv 540  
tsvkadtssd gaaattccaa cttctaatat tagaaggata atttgcctaa cctctggagg 600  
tsnrrestsg gttttccaga gcctcacctc tcctgggttg aaaatggaga agaattaaat 660  
ghswngncca tcaacacaac agtttcccaa gatcctgaaa ctgagctcta tgctgttant 720  
tvstdtyavag cagcaaaactg gatttcaata tgacaaccaa ccacagcttc atgtgtctss 780  
kdnmttnhsm ccattcaagta tggacattta agagtgaatc agaccttcaa ctggaatata 840  
akyghrvntn wntccaagca agagcatttt cctgatggag gcggggggatc cgaggtccag 900  
ctttkhdggg gsvcagcagt ctggacctga cctgggtgaag cctggggctt cagtgaagat 960  
atcsgdvkga svksetgcaa ggcttctggg tactcattca ctggctacta catgcactgg 1020  
gtgackasgy stgyymhwva gcagagccat ggaaagagcc ttgagtggat tggacgtatt 1080  
aatcctaack shgkswgrnn aatgggtgta ctctctacaa ccagaaattc aaggacaagg 1140  
ccatattaac ngvtynkkdk attgtagaca agtcatccac cacagcctac atggagctcc 1200  
gcagcctgac atvdksssta ymrstctgag gactctgcgg tctattactg tgcaagatct 1260  
actatgatta cgaacsdsav yycarstmtn tatgttatgg actactgggg tcaagtaacc 1320  
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cactggcggc ggcggtatca gtattggggg ggggtggggg stgatgacc agactccac 1440  
attcctgctt gtttcagcag gagacagggt tvmtttvsag drvaccataa cctgcaaggc 1500  
cagtcagagt gtgagtaat atgtagcttg gtattckass vsndvawycc aacagaagcc 1560  
agggcagtct cctacactgc tcatatccta tacatccakg stsytsgtgc ctacgctgga 1620  
gtccctgate gcttcattgg cagtggatat gggacgsrya gvdrsgsygt gatttcactt 1680  
tcaccatcag cactttgcag gctgaagacc tggcagttta dttstadavy tttctgtcag 1740  
caagattata attctcctcc gacgttcggg ggaggacca cdynstgggt agctggaaat 1800  
caaataakk 1809

<210> 4  
<211> 887  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Human B7-2 sequence followed by a linker.

<221> misc\_feature  
<222> (1)...(887)  
<223> n = A,T,C or G

<400> 4

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tgcctctctg aagattcaag cttatttcaa tgagactgca gacctgccat akayntadgc 120
caatttgcaa actctcaaaa ccaaagcctg agtgagctag tagtatttca nsnssvvtgg 180
naggaccagg aaaacttggg tctgaatgag gtatacttag gcaaagawdn vnvygkga 240
tttgacagtg ttcattccaa gtatatgggc cgcacaagtt ttgattkdsv hskymgrtsd 300
cggacagttg gaccctgaga cttcacaatc ttcagatcaa ggacaagggc sdswhrhnd 360
kgttgtatca atgtatcctc catcacaaaa agcccacagg aatgattcgc atychhkkgt 420
mrccaccaga tgaattctga actgtcagtg cttgctaact tcagtcaacc tghmssvan 480
saaatagtag caatttctaa tataacagaa aatgtgtaca taaatttgac cvsntnvynt 540
tgctcatcta tacacgggta cccagaacct aagaagatga gtgttttgct csshgkms 600
vaagaaccaa gaattcaact atcgagtatg atgggtattat gcagaaatct crtknstydg 660
mksaagataa gtgcacagaa ctgtacgagc ttcccatcag cttgtctgtt tcadnvt ydv 720
sssvsttccc tgatgttacg agcaatatga ccatcttctg tattctggaa actgadvt sn 780
mtctdcaaga cgcggctttt atcttcacct ttctctatag agcttgagga cctcktrss 840
sdagcctccc ccagaccaca ttctggagg cgggggatcc dhggggs 887
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<210> 5

<211> 1518

<212> DNA

<213> Artificial Sequence

<220>

<223> pBSII/Leader/scFv/HG1.

<400> 5

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atggccttgc attgtcagtt gatgcaggat acaccactcc tcaagtttcc atgtccaagg 60
ctcattcttc tctttgtgct gctgattcgt ctttcacaag tgtcttcaga tgttgatgaa 120
caactgtcca agtcagtga agataaggta ttgctgcctt gccgttacaa ctctccgc 180
gaagatgagt ctgaagaccg aatctactgg caaaaacatg acaaagtggg gctgtctgtc 240
attgctggga aactaaaagt gtggcccag tatagaacc ggactttata tgacaacact 300
acctactctc ttatcactct gggcctgggc ctttcagacc ggggcacata cagctgtgtc 360
gttcaaaaga aggaaagagg aacgtatgaa gttaaacact tggctttagt aaagtgtccc 420
atcaaagctg acttctctac cccaacata actgagctct gaaacccatc tgcagacact 480
aaaaggatta cctgctttgc ttccgggggt ttcccaaagc ctgcttctc ttggttgga 540
aatgggaagag aattacctgg catcaatcag acaatttccc aggatcctga atctgaattg 600
tacaccatta gtagccaaact agatttcaat acgactcgca accacaccat taagtgtctc 660
attaaatatg gagatgtcga cgtgtcagag gacttcacct gggaaaaacc cccagaagac 720
cctcctgata gcaagcccg ggggtgggtg agcgggtggg gcggcagtg cggcggcgga 780
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atgaccaga cctccacatt cctgcttgtt tcagcaggag acaggggttac cataacctgc 1260
aaggccagtc agagtgtgag taatgatgta gcttgggtacc aacagaagcc agggcagtc 1320
cctacactgc tcatatccta tacatccagt cgctacgctg gagtccctga tcgcttcatt 1380
ggcagtggtg atgggacgga ttacacttcc accatcagca ctttgcaggc tgaagacctg 1440
gcagtttatt tctgtcagca agattataat tctctccga cgttcgggtg aggcaccaag 1500
ctggaaatca aacggtaa 1518
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<210> 6

<211> 2090

<212> DNA

<213> Artificial Sequence

<220>

<223> 5T4 scFv-human IgE fusion construct.

<400> 6

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ctcgagccac catgggatgg agctgtatca tctcttctt ggtagcaaca gctacaggtg 60
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tgaagatata ctgcaaggct tctggttact cattcactgg ctactacatg cactgggtga 180
agcagagcca tggaaagagc cttgagtggg ttggacgtat taatcctaac aatgggtgtta 240
ctctctacaa ccagaaattc aaggacaagg ccatattaac tgtagacaag tcatccacca 300
cagcctacat ggagctccgc agcctgacat ctgaggactc tgcgggtctat tactgtgcaa 360
gatctactat gattacgaac tatgttatgg actactgggg tcaagtaact tcagtcaccg 420
tctcttcagg tgggtgggtgg agcgggtggg gcggcactgg cggcgggcga tctagtattg 480
tgatgaccca gactcccaca ttctgtcttg ttccagcagg agacagggtt accataacct 540
gcaaggccag tcagagtgtg agtaatgatg tagcttggtg ccaacagaag ccagggcagt 600
ctcctacact gctcatatcc tatacatcca gtgcgtacgc tggagtcctt gategcttca 660
ttggcagtggt atatgggacg gatttcaett tcaccatcag cactttgcag gctgaagacc 720
tggcagttta tttctgtcag caagattata attctctctc gacgttcggt ggaggcacca 780
agcttgaaat caaacgggccc tccacacaga gcccatccgt ctcccccttg acccgctgct 840
gcaaaaacat tccctccaat gccacctcgg tgactctggg ctgcctggcc acgggctact 900
tccccgagcc ggtgatgggtg acctgggaca caggctcctt caacgggaca actatgacct 960
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actgggtcga caacaaaacc ttcagcgtct gctccaggga cttcaccccg cccaccgtga 1140
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gctcgtctct tgggtacacc ccagggaacta tcaacatcac ctggctggag gacgggcagg 1260
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ggtccccggc cagtgggaag cctgtgaacc actccaccag aaaggaggag aagcagcgca 1620
atggcacggt aaccgtcacg tccacctgct cgggtgggac ccgagactgg atcgaggggg 1680
agacctacca gtgcagggtg acccaccccc acctgccag ggccctcatg cgggtccacga 1740
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cggggagccg ggacaagcgc acctcgcct gctgatcca gaacttcata cctgaggaca 1860
tctcgggtgca gtggtgtcac aacgaggtgc agctcccga cggccggcac agcacgacgc 1920
agccccgcaa gaccaagggc tccggttctt tegtcttcag ccgcctggag gtgaccaggg 1980
ccgaatggga gcagaaagat gagttcatct gccgtgcagt ccatgaggca gcgagccctt 2040
cacagaccgt ccagcgagcg gtgtctgtaa atccccgtaa atgagagctc 2090
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<210> 7

<211> 945

<212> DNA

<213> Artificial Sequence

<220>

<223> B7-EGF fusion construct.

<400> 7

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atggcttgca attgtcagtt gatgcaggat acaccactcc tcaagtttcc atgtccaagg 60
ctcattcttc tctttgtgct gctgattcgt ctttcacaag tgtcttcaga tgttgatgaa 120
caactgtcca agtcagtgaag agataaggta ttgctgcctt gccgttacaa ctctccgcct 180
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gaagatgagt ctgaagaccg aatctactgg caaaaacatg acaaagtggg gctgtctgtc 240
attgctggga aactaaaagt gtggcccgag tataagaacc ggactttata tgacaacact 300
acctactctc ttatcactct gggectgggc ctttcagacc ggggcacata cagctgtgtc 360
gttcaaaaga aggaaagagg aacgtatgaa gttaaactct tggctttagt aaagtgtgct 420
atcaaaagctg acttctctac ccccaacata actgagtctg gaaacccatc tgcagacact 480
aaaaggatta cctgctttgc ttcggggggg ttcccaaagc ctgctttctc ttggttggaa 540
aatggaagag aattacctgg catcaatacg acaatttccc aggatcctga atctgaattg 600
tacaccatta gtagccaaact agatttcaat acgactcgca accacaccat taagtgtctc 660
attaaatatg gagatgctca cgtgtcagag gacttcacct gggaaaaacc ccagaagac 720
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actagtaata gtgactctga atgtccctcg tcccacgatg ggtactgctt ccatgatggg 840
gtgtgcatgt atattgaagc attggacaag tatgcatgca actgtgttgt tggctacatc 900
ggggagcgat gtcagtaccg agacctgaag tggtggaac tgcgc 945

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<210> 8  
 <211> 47  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Oligonucleotide.

```

<400> 8
ctagtctcgc cgccgccact gccgccacca ccgtccccac caccccc 47

```

<210> 9  
 <211> 38  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Forward primer.

```

<400> 9
ctcgaattcc accatggctt gcaattgtca gttgatgc 38

```

<210> 10  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Reverse primer.

```

<400> 10
ctccccgggc ttgctatcag gagggctcttc 30

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<210> 11  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Forward primer.

<400> 11  
 ctcaactagtg aggtccagct tcagcagtc 29

<210> 12  
 <211> 44  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Reverse primer.

<400> 12  
 ctgcgcggccg cttaccgttt gatttccagc ttgggtgctc cacc 44

<210> 13  
 <211> 87  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Oligonucleotide containing translation initiation  
 site and signal peptide.

<400> 13  
 ctagactcga gccaccatgg gatggagctg tatcatcctc ttcttggtag caacagctac 60  
 aggtgtccac tccgaggtcc agctgca 87

<210> 14  
 <211> 79  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Oligonucleotide containing translation initiation  
 site and signal peptide.

<400> 14  
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 atcccatggt ggctcgagt 79

<210> 15  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer with PstI site.

<400> 15  
 gtccagctgc agcagtcctgg 20

<210> 16  
 <211> 22  
 <212> DNA

<213> Artificial Sequence

<220>

<223> Primer with Hind III site.

<400> 16  
cgtttgattt caagcttggt gc 22

<210> 17  
<211> 40  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Primer for the constant region which incorporates  
a Hind III site.

<400> 17  
gcgcaagctt gaaatcaaac gggcctccac caagggccca 40

<210> 18  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Primer for the constant region which incorporates  
a XhoI site.

<400> 18  
gcgcctcgag tcatttaccg ggagacaggg 30

<210> 19  
<211> 40  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Oligonucleotide with HindIII site.

<400> 19  
gcgcaagctt gaaatcaaac gggcctccac acagagccca 40

<210> 20  
<211> 31  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Oligonucleotide with XhoI site.

<400> 20  
gcgcctcgag tcatttaccg ggatttacag a 31

<210> 21



<211> 29  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Oligonucleotide with SpeI site.  
  
 <400> 21  
 ggactagtaa tagtgactct gaatgtccc 29  
  
 <210> 22  
 <211> 34  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Oligonucleotide with NotI site and Stop codon.  
  
 <400> 22  
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 <210> 23  
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